

Task 6: Sampling. Each species will be sampled after the same number of growing days in the Vector Waste Ratios.

Step A: Select 2 jars per species based on the following criteria:

1. At least 50% mycelium colonization, or if less, choose the greatest colonization
2. At least some areas of "iii" density, or if less, choose the most dense
3. Favor higher ratios of VW when possible within species
4. After Bring selected ratio jars, and one of each control to the riverside wastewater treatment lab

Step B: Take Samples

Gather supplies:

- a. Selected ratio jars
- b. Control jars (1 vw only, 1 vw + sawdust)
- c. Large Stainless steel bowl
- d. 4 oz jars (one per sample= 20 jars)
- e. Acetone (for rinsing)
- f. Stir spoon
- g. Latex gloves
- h. Safety glasses
- i. Lab coat
- j. Permanent marker

Sampling Method

1. Wear latex gloves, safety glasses, and lab coat
2. Under fume hood, rinse clean stainless bowl and spoon with acetone and let air dry.
3. Open jar to be sampled, use spoon to loosen contents, pour entire contents into stainless bowl.
4. Use spoon to break up material as much as possible, and stir thoroughly to homogenize as best as possible.
5. Use spoon to fill a 4oz jar completely with homogenized material. (randomly choose one vw ratio jar to sample in triplicate, and fill a total of three 4oz jars)
6. Tightly close lid of 4oz jar, and label clearly with species, ratio jar #, sampling date
7. Transfer remaining contents from bowl back to original jar, using spoon.
8. Wash bowl and spoon thoroughly with hot soapy water, rinse with tap water, then DI water. Rinse with acetone under fume hood and let air dry. Repeat
9. Take careful notes in lab notebook: which jars were sampled, procedures, etc (species, ratio jar #, date ratio was mixed)
10. Print and apply lab label to each jar (Jeff Donovan).
11. Freeze 4oz jars as soon as possible, to store before sending.
12. Freeze all remaining samples at TLC Mycology Lab for potential testing in the future.
13. Send to Pacific Rim Laboratory for PCB testing/fingerprinting (EPA 1668)

Task 7: Results Analysis

Based on ratio amounts, calculate